Subject: Convert M$VC console app to U++
Posted by nlneilson on Wed, 05 Dec 2012 13:32:57 GMT

I have a small console app done in M$VC.
Can it be converted to U++ ?

Errors with these 5 lines:

#using <System.dll>
using namespace System;
using namespace System::IO::Ports;
using namespace System::Threading;
using namespace System::IO;

#using <System.dll>
 managed targeted code requires a '/clr' option

Commenting that line the other 4:

C:\MyApps\Ccheck\Ccheck.cpp(8) : error C2871: 'System' : a namespace with this name does not exist
C:\MyApps\Ccheck\Ccheck.cpp(9) : error C2653: 'System' : is not a class or namespace name
C:\MyApps\Ccheck\Ccheck.cpp(9) : error C2871: 'Ports' : a namespace with this name does not exist
C:\MyApps\Ccheck\Ccheck.cpp(10) : error C2653: 'System' : is not a class or namespace name
C:\MyApps\Ccheck\Ccheck.cpp(10) : error C2871: 'Threading' : a namespace with this name does not exist
C:\MyApps\Ccheck\Ccheck.cpp(11) : error C2653: 'System' : is not a class or namespace name
C:\MyApps\Ccheck\Ccheck.cpp(11) : error C2871: 'IO' : a namespace with this name does not exist

This app just checks the Comm Ports for GPS receivers.

Here is a link to the U++ Ccheck package and also COMcheck_2.exe

Subject: Re: Convert M$VC console app to U++
Posted by cbpporter on Wed, 05 Dec 2012 13:47:47 GMT

That is not standard C++, it is C++/CLI, a similar but incompatible .NET interoperability language from Microsoft.

I am not sure if U++ works with C++/CLI.

But by adding the /clr compilation option, maybe you can get it to compile under TheIDE.

Subject: Re: Convert M$VC console app to U++
Posted by Sender Ghost on Wed, 05 Dec 2012 14:37:42 GMT
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Hello, Neil.
nlneilson wrote on Wed, 05 December 2012 14:32I have a small console app done in M$VC.
Can it be converted to U++ ?

It's possible to build Managed C++ with U++ TheIDE.
Just add "-clr" compiler option to U++ package with managed C++ source code and use "CLR"
build flag for main package configuration.

Changed Ccheck package attached to the message.

File Attachments
1) Ccheck.zip, downloaded 553 times

Subject: Re: Convert M$VC console app to U++
Posted by nlneilson on Wed, 05 Dec 2012 14:52:48 GMT
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THANKS Sender Ghost!

Worked great first try.
I will read up on the link Managed C++ with U++ TheIDE

Subject: Re: Convert M$VC console app to U++
Posted by nlneilson on Wed, 05 Dec 2012 23:38:23 GMT
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The help on this forum is great.

I just sent another $20.

Subject: Re: Convert M$VC console app to U++
Posted by lectus on Thu, 06 Dec 2012 01:33:19 GMT
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This is very interesting.

So it's possible to use all the power of U++ with .NET libraries.

Subject: Re: Convert M$VC console app to U++
Posted by nlneilson on Sat, 08 Dec 2012 23:14:35 GMT
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I tried to add a main top window and an EditField.
Now it gives this error:C:\MyApps\C3\main.cpp(32) : error C2872: 'String' : ambiguous symbol
    could be 'c:\windows\microsoft.net\framework\v2.0.50727\mscorlib.dll : System::String'
    or   'c:\upp\uppsrc\core\String.h(306) : Upp::String'

Another new app was created and the Ccheck.cpp code was pasted in.
There was a similar error with Thread until commented out
// using namespace System::Threading;

System::String^ Com; gets rid of the ambiguous error
Com is local here but may need to convert to Upp::String later.

Get this error now and no idea what is required.
Linking...
MSVCRT.lib(crtexew.obj) : error LNK2019: unresolved external symbol _WinMain@16 referenced
in function ___tmainCRTStartup
C:\upp\out\MyApps\MSC9.Clr.Gui.Mt\C3.exe : fatal error LNK1120: 1 unresolved externals

File Attachments
1) C3.zip, downloaded 311 times

Subject: Re: Convert M$VC console app to U++
Posted by nlneilson on Sun, 09 Dec 2012 05:42:38 GMT
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I put the Ccheck.cpp code (except the main) into a header file.
It compiles OK and can access a small function added to that file.

It runs OK for the small function in optimal and debug but cannot debug into the code.

"Exception: E0434352 at 7607B9BC"

Sender Ghost's mod to Ccheck runs OK in optimal and also debug.
But trying to run in debugger throws a similar exception pop-up and also a dos box:

line 192 runs the first function in the managed code.

Is this my error or does U++ have a problem debugging into managed code?

File Attachments
1) Ccheck-debug-error.png, downloaded 710 times

Subject: Re: Convert M$VC console app to U++
Posted by Sender Ghost on Sun, 09 Dec 2012 13:03:30 GMT
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Personally, I don't recommend to mix U++ and managed C++ source code in the same U++
package, if you want to debug it from TheIDE.
Instead, you could create separate U++ package with managed C++ source code for which you
could create Microsoft Visual C++ project for debugging purposes.

Changed C3.zip archive attached to the message, which includes C3 and C3Managed U++
packages.

File Attachments
1) C3.zip, downloaded 315 times

Subject: Re: Convert M$VC console app to U++
Posted by nlneilson on Sun, 09 Dec 2012 17:36:29 GMT
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Thank you very much Sender Ghost.

Changing the code so it works is appreciated.
It works.

When the code is added to a much bigger app that app can be debugged and only if the managed
code is called would there be a problem. The managed code can be debugged in M$VC++ if
necessary if I understand correctly. No problem as the basic code for GPS has been used in my
apps for years without a problem.

It's just that the serial code I have been using works on Win XP but not Win7. The M$VC++
serial/port code works on all without a problem and is much faster and less errors and hang ups..

It will take me some time to understand how your code works.

Again THANK YOU!